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what is claimed is:

What is claimed is:-

1. A fuel injector (1) for fuel injection systems of internal combustion engines, in particular for directly injecting fuel into the combustion chamber of an internal combustion engine, having a solenoid coil (8), an armature (11) that can be acted upon by the solenoid coil (8) in a stroke direction in opposition to a first resetting spring (27), a valve needle (13) that is connected to a valve-closure member (14), the valve needle having a first limit stop (32) for the armature (11), the armature (11) additionally being acted upon by a second resetting spring (40), and having a connecting part (16), which supports a valve seat (15) that cooperates with the valve-closure member (14),

wherein

a stationary second limit stop (33) is provided for the armature (11), the second resetting spring (40) acts upon the armature (11) contrary to the stroke direction and, in a resting position when the solenoid coil (8) is not excited, the second resetting spring holds the armature (11) in position at the second limit stop (33) such that the armature (11) is positioned at a prestablished distance from the first limit stop (32), configured on the valve needle (13), the second limit stop (33) being configured on the connecting part (16) and the connecting part (16) being made of a magnetic material, and in the vicinity of the second limit stop (33), a magnetic restricter (56) is provided on the connecting part (16) and/or on the armature (11).

2. A fuel injector (1) for fuel injection systems of internal combustion engines, in particular for directly injecting fuel into the combustion chamber of an internal combustion engine, having a solenoid coil (8), an armature (11) that can be acted upon by the solenoid coil (8) in a stroke direction in opposition to a first resetting spring (27), a valve needle (13) that is connected to a valve-closure member (14), the valve needle having a first limit stop (32) for the armature (11), the armature (11) additionally being acted upon by a second resetting spring (40), and having a connecting part (16), which supports a valve seat (15) that cooperates with the valve-closure member (14),

wherein

a stationary second limit stop (33) is provided for the armature (11), and the second resetting spring (40) acts upon the armature (11) contrary to the stroke direction, and, in a resting position when the solenoid coil (8) is not excited, the second resetting spring

holds the armature (11) in position at the second limit stop (33) such that the armature (11) is positioned at a preestablished distance from the first limit stop (32) configured on the valve needle (13), the second limit stop (33) being configured on the connecting part (16), and the connecting part (16) being made of a nonmagnetic material.

3. The fuel injector as recited in Claim 1 or 2, wherein both an armature guide (57) as well as the second limit stop (33) are integrated in the connecting part (16).

4. The fuel injector as recited in Claim 3, wherein the armature (11) is configured such that it cooperates both with an external pole (59) as well as with the armature guide (57) and the second limit stop (33).

5. The fuel injector as recited in Claim 1, wherein the magnetic restricter (56) is arranged at the periphery of a segment of the armature (11) that is aligned with the valve needle (13).

6. The fuel injector as recited in one of the Claims 1 through 5, wherein, between the connecting part (16) and an external pole (59), a casing (52) made of a nonmagnetic material is arranged.

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